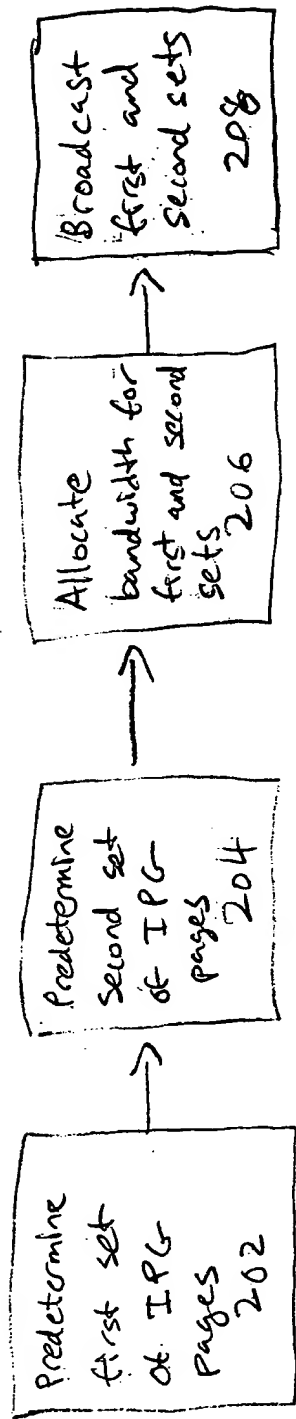


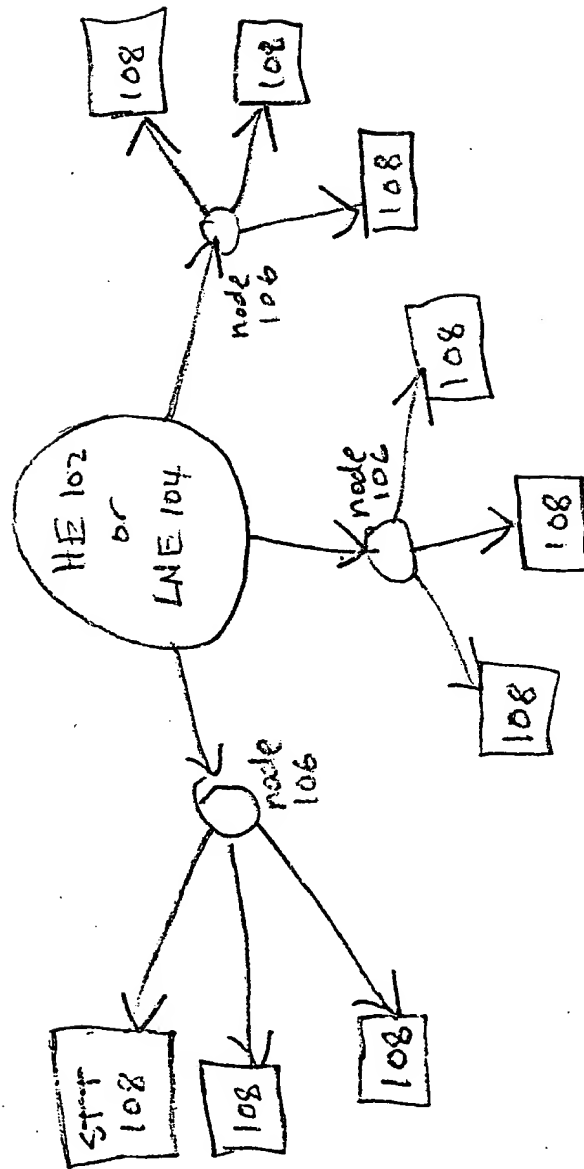
1001



200

# First Push Demandcast (Broadcast) Method

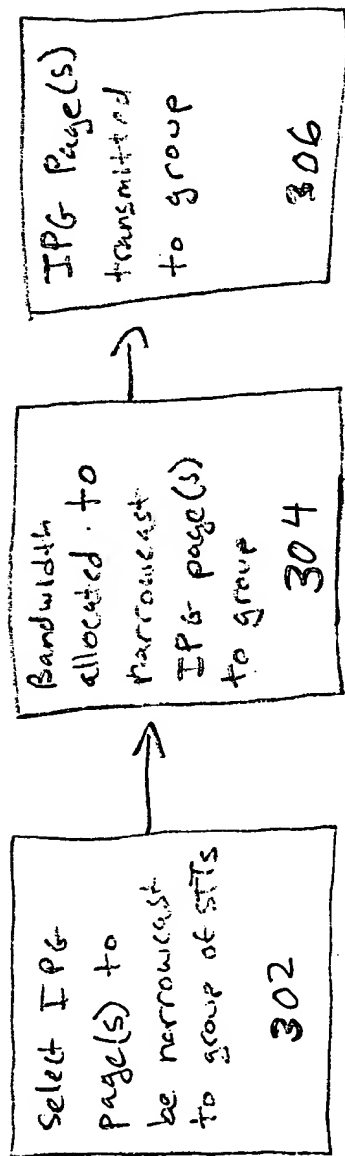
Fig. 2A



250

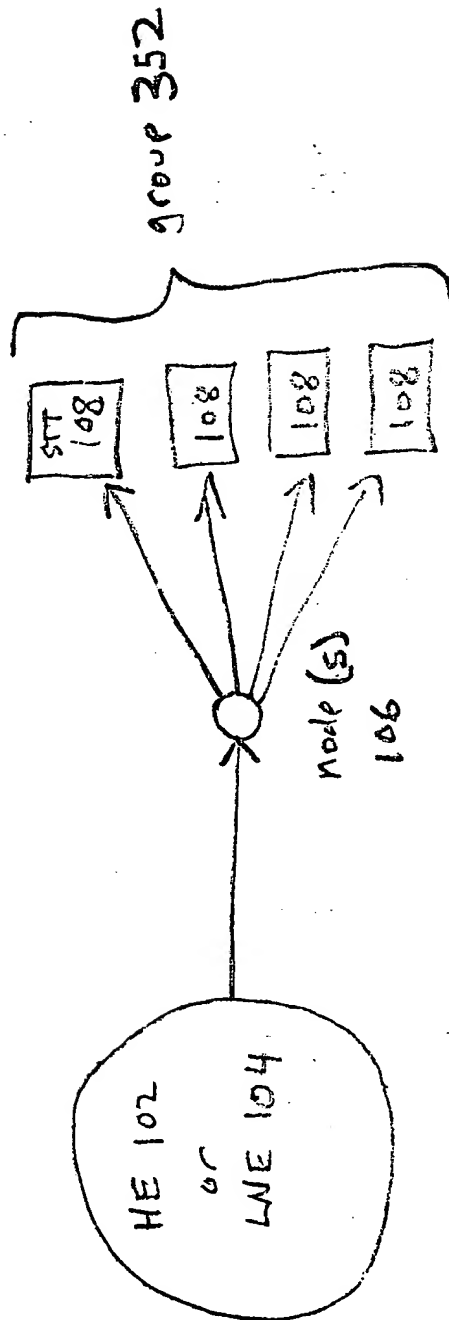
# First Push Demandcast (Broadcast) Topology

Fig. 2B



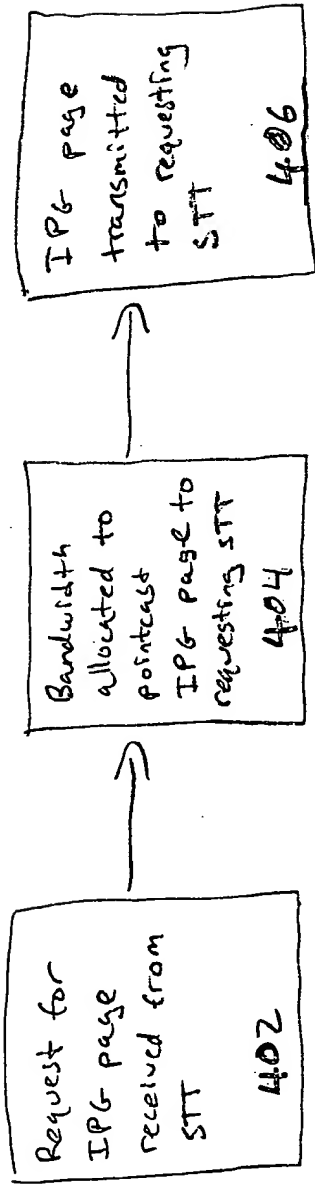
## Second Push Demandcast (Narrowcast) method 300

Fig. 3A



## Second Push Demandcast (Narrowcast) Topology 350

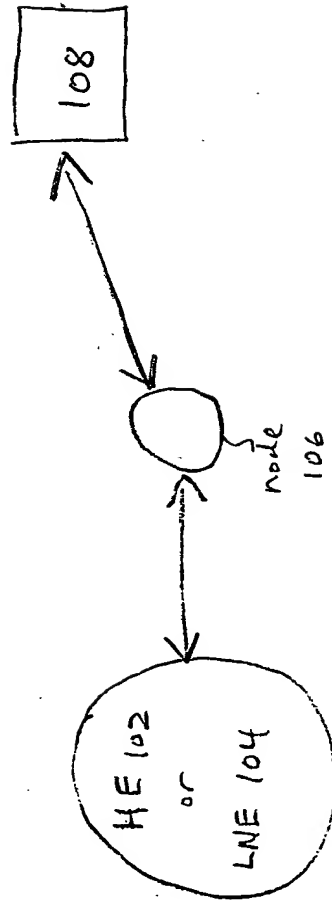
Fig. 3B



First Pull Demandcast (Pointcast) method

400

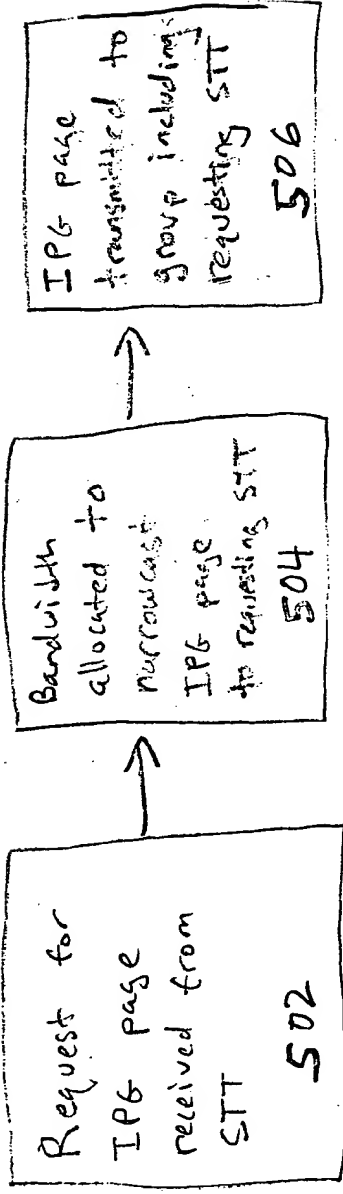
Fig. 4A



Pull Demandcast (Pointcast) Topology

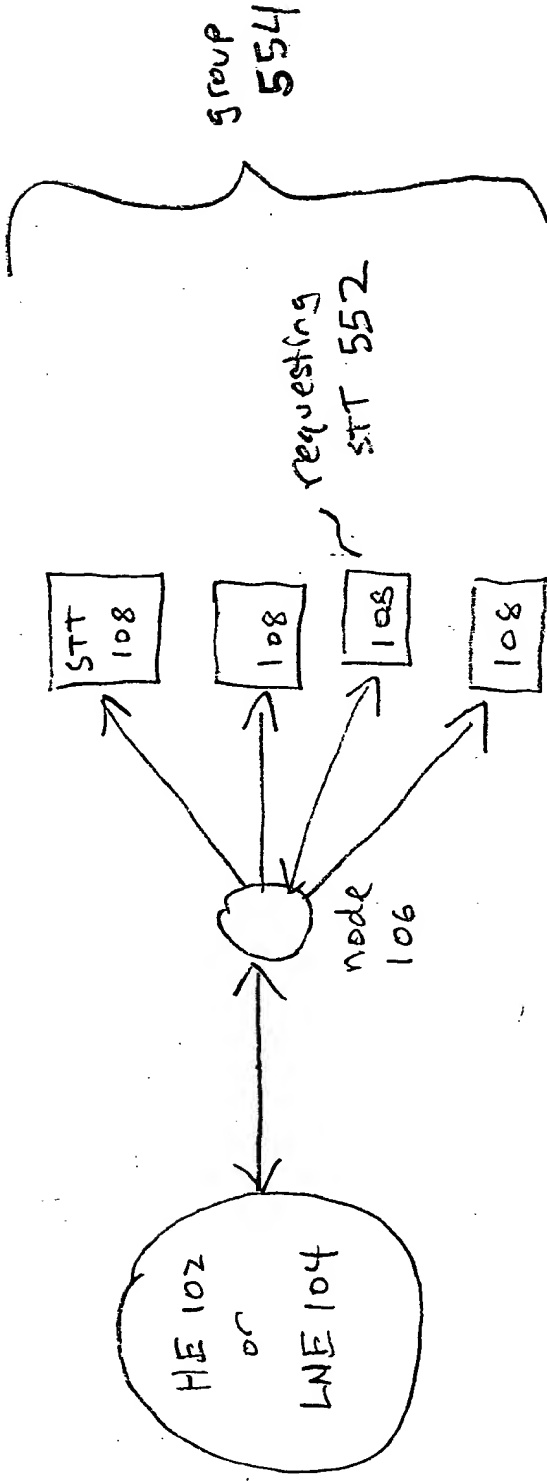
450

Fig. 4B



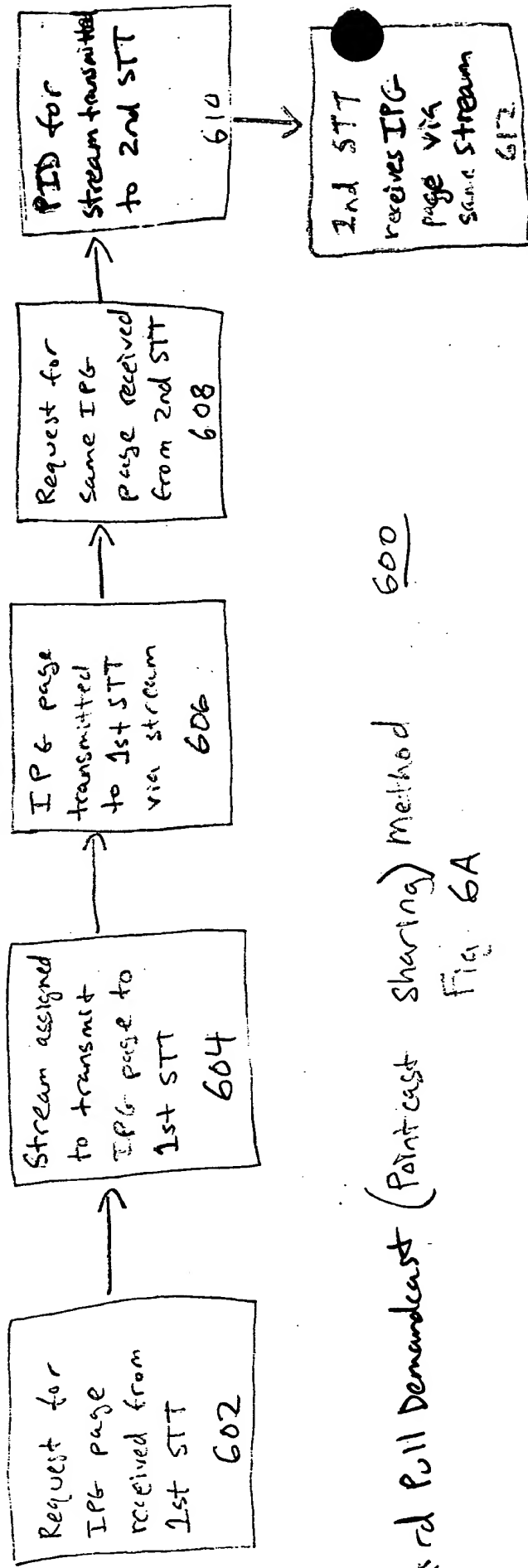
Second Pull Demandcast (Narrowcast) method 500

Fig. 5A

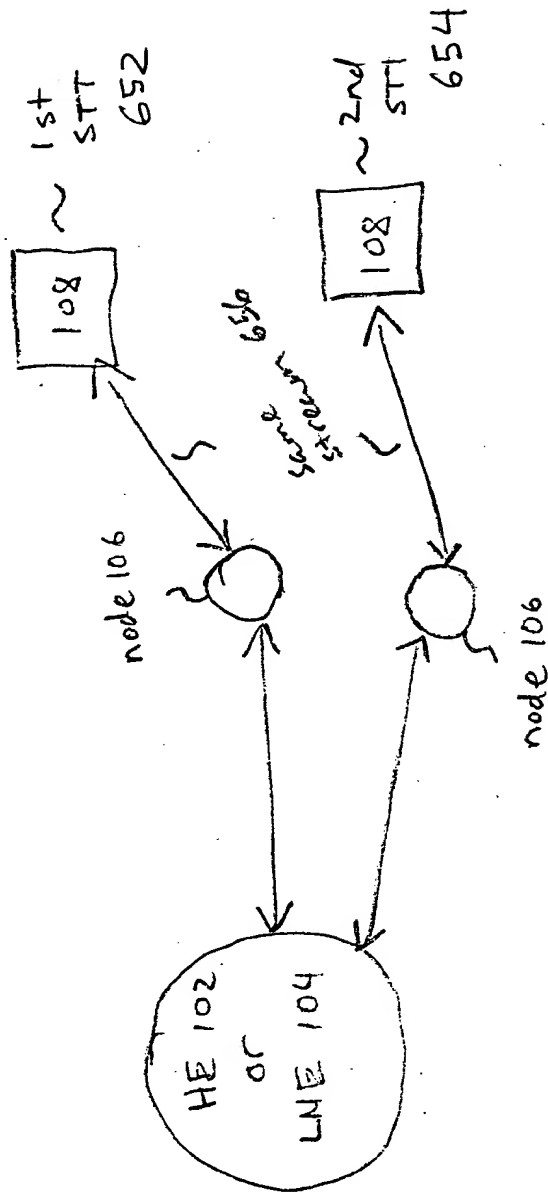


Second Pull Demandcast (Narrowcast) Topology 550

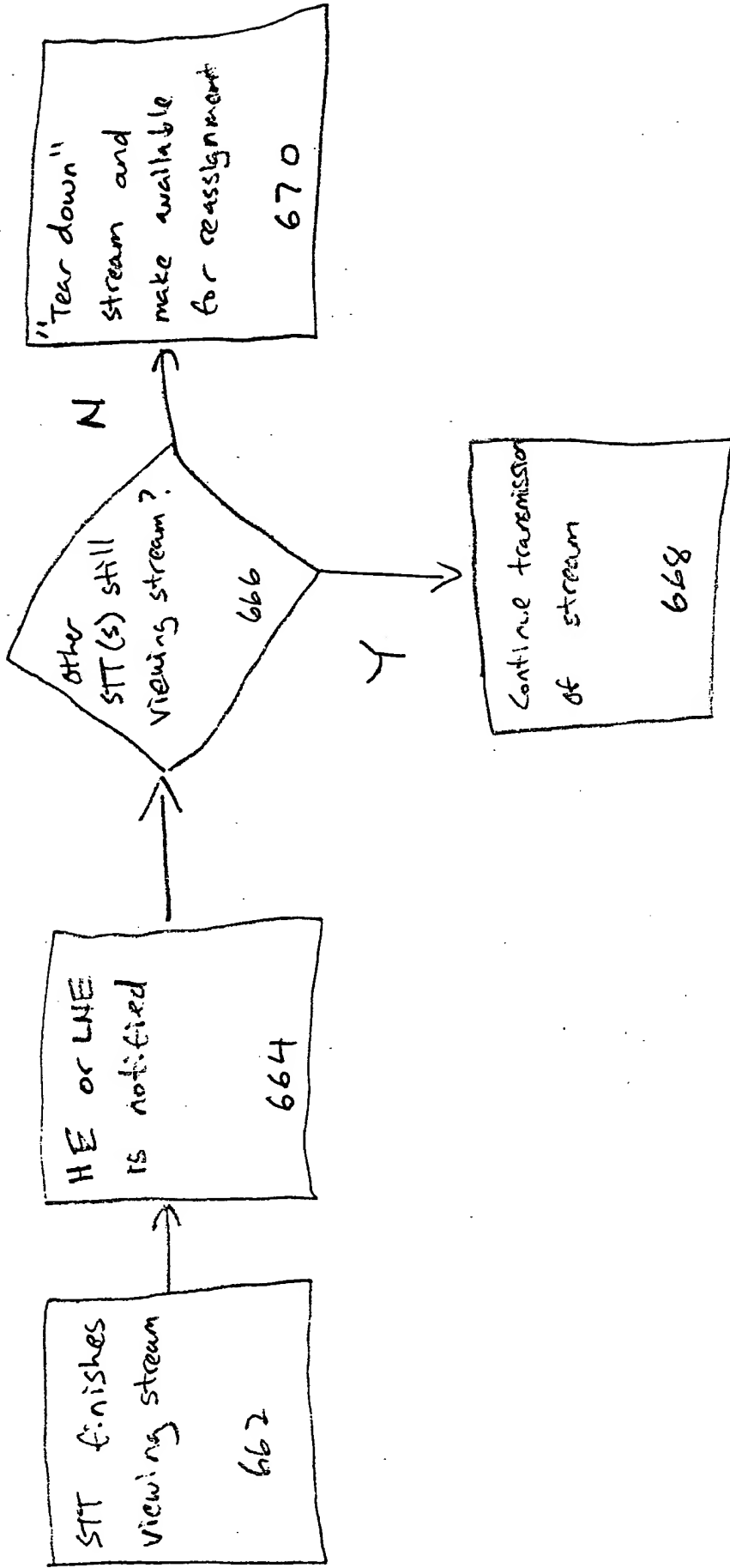
Fig. 5B

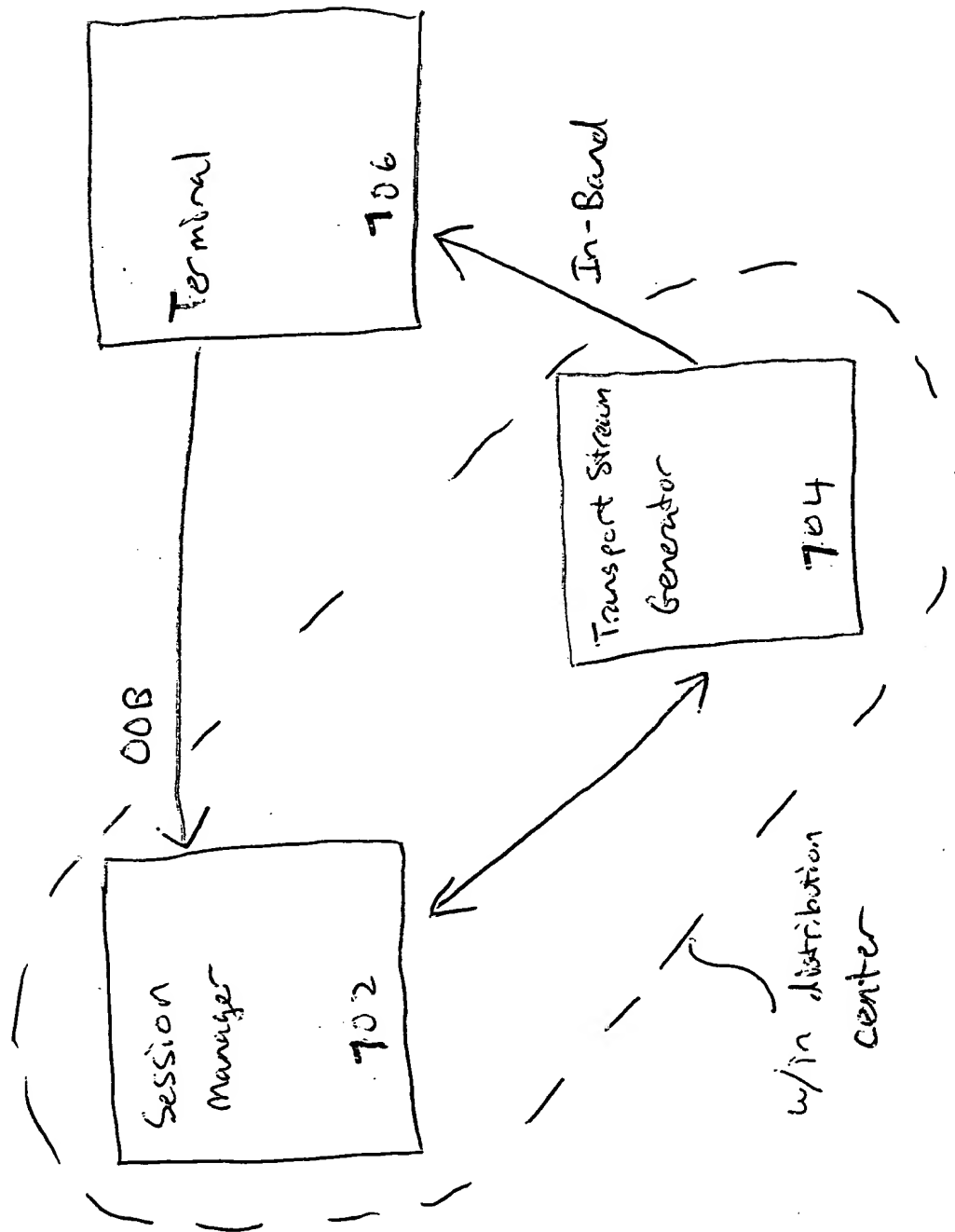


Third Pull Demandcast (Pointcast Sharing) Method 600  
Fig. 6A

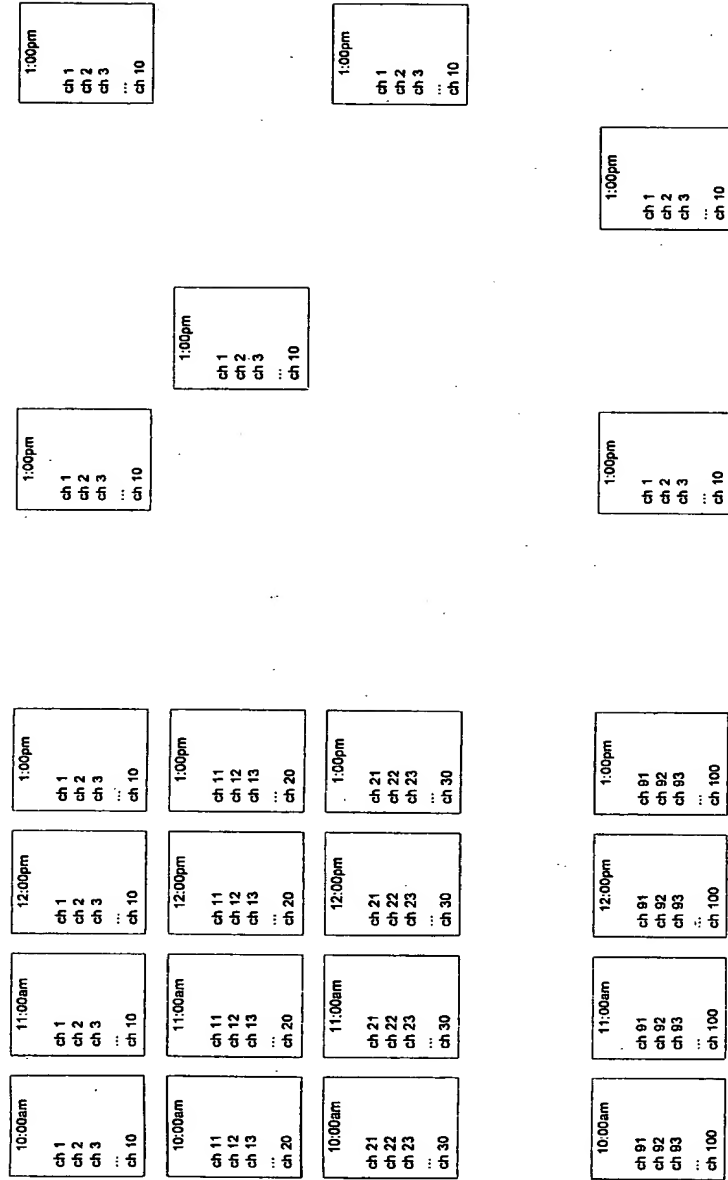


Third Pull Demandcast (Pointcast Sharing) Topology 650  
Fig. 6B









Constant Broadcast Pages = 40 pages.  
Pages are current time + 3 adjacent hours  
look-aheads in guide page matrix.  
Pages are constantly broadcast.

Demandcast Pages = 30 pages.  
Pages are anywhere in guide page matrix  
beyond constantly broadcast pages.

# of pages in broadcast = # of constant broadcast pages + # of demandcast pages

# of constant broadcast pages = (# of pages per time slot) x (# of time slots in constant broadcast)

Fig. 8

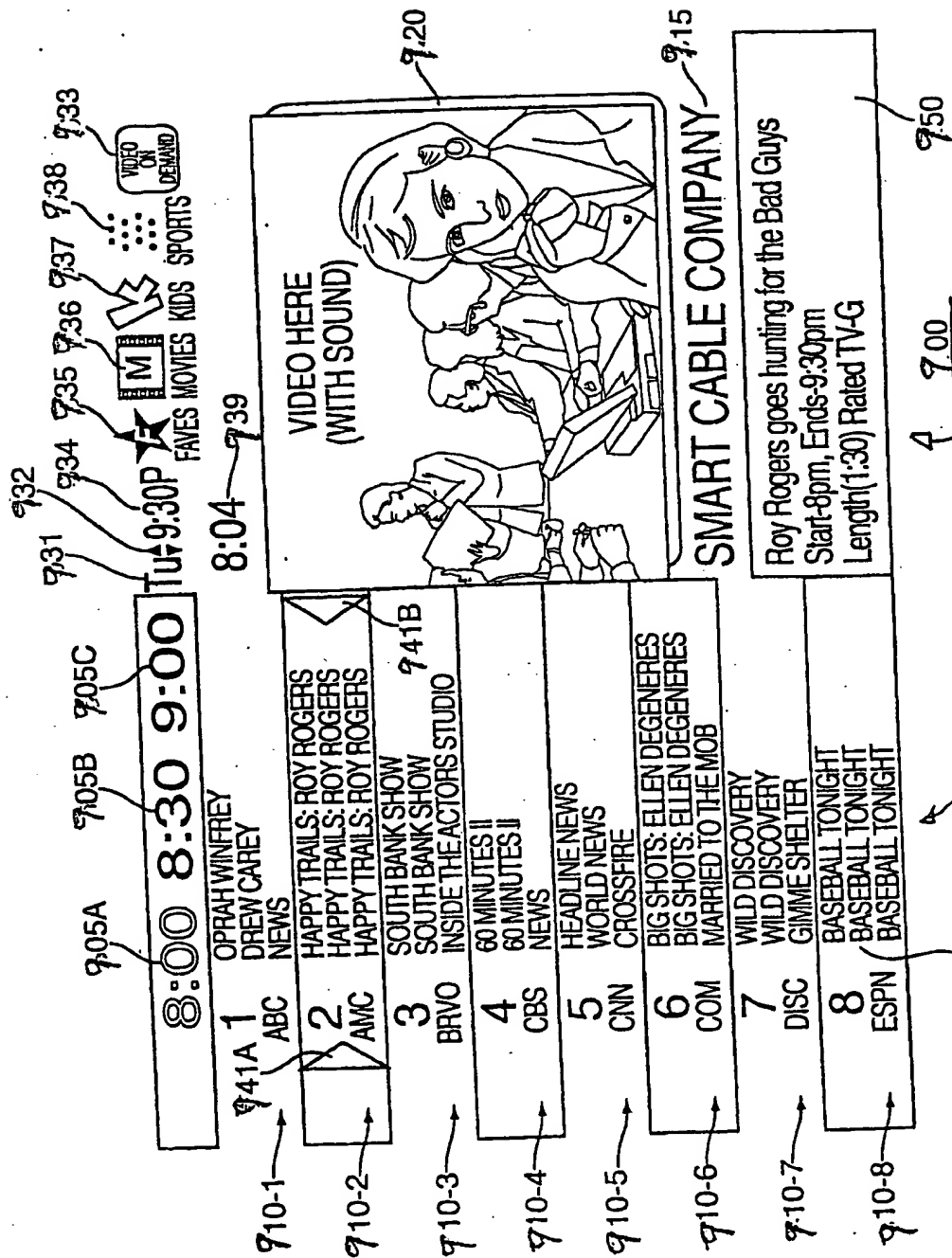


Figure 9

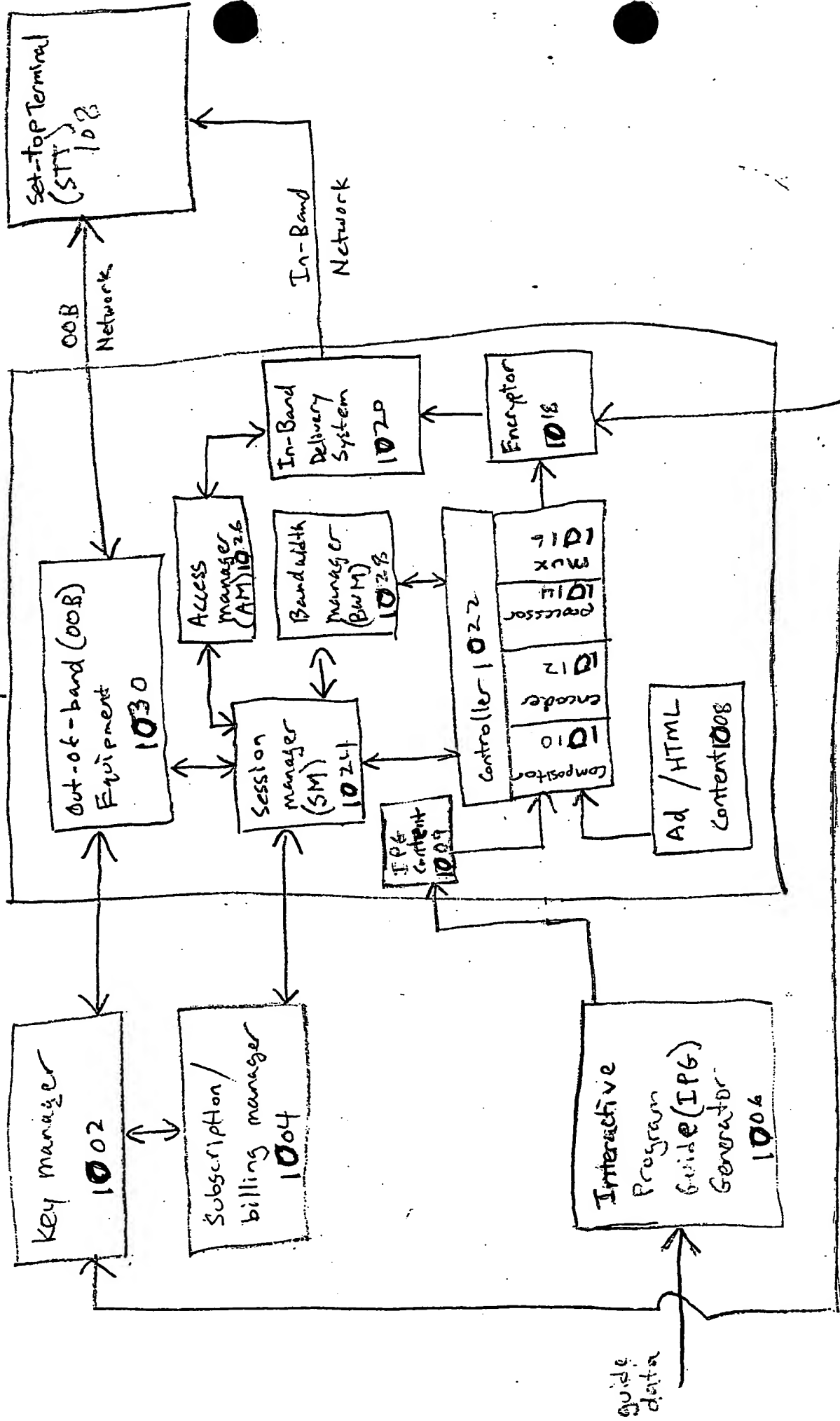


FIG. 10

VOD In-Band/OOB Network

Head-End 102

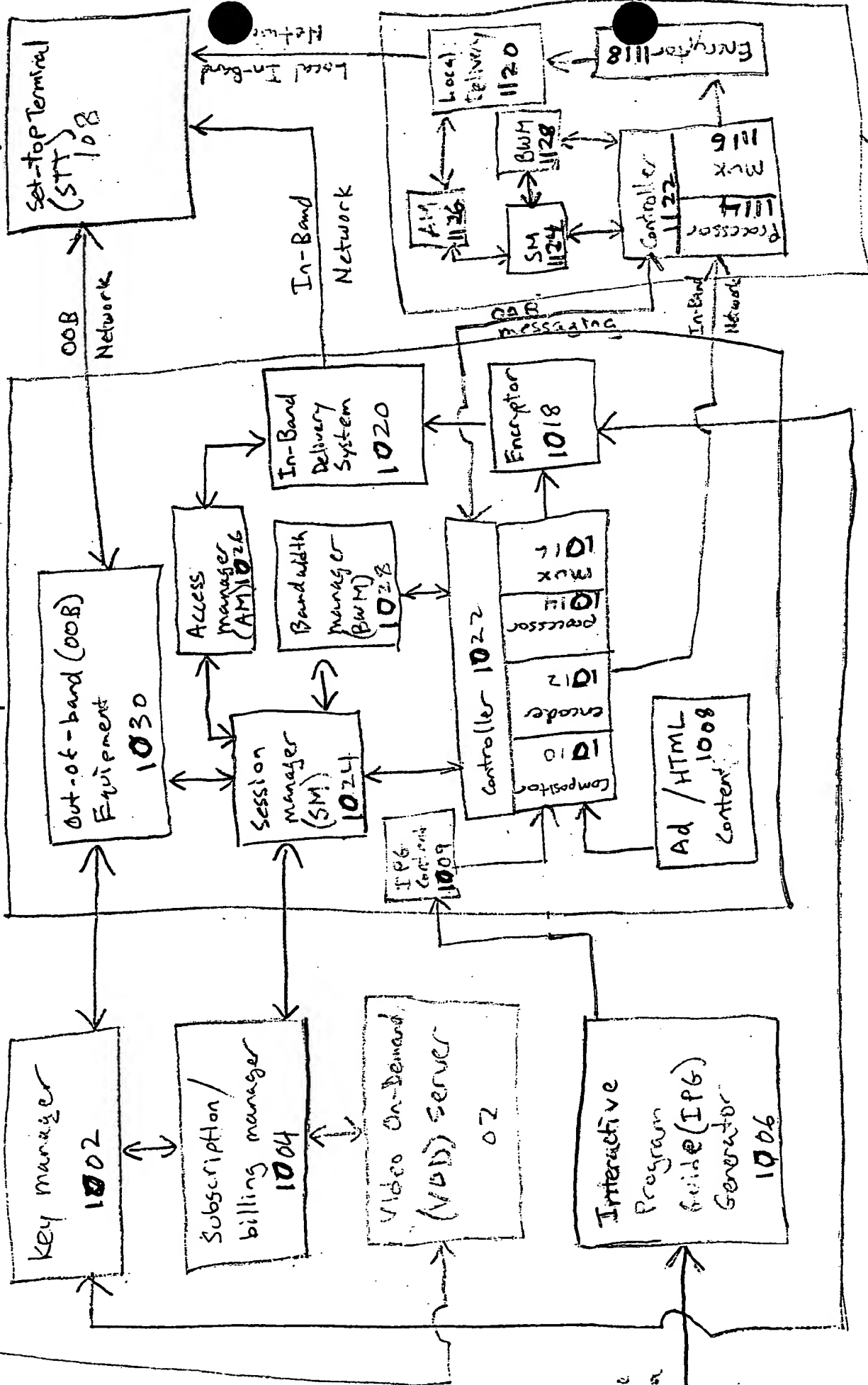


FIG. 11

1100

1101

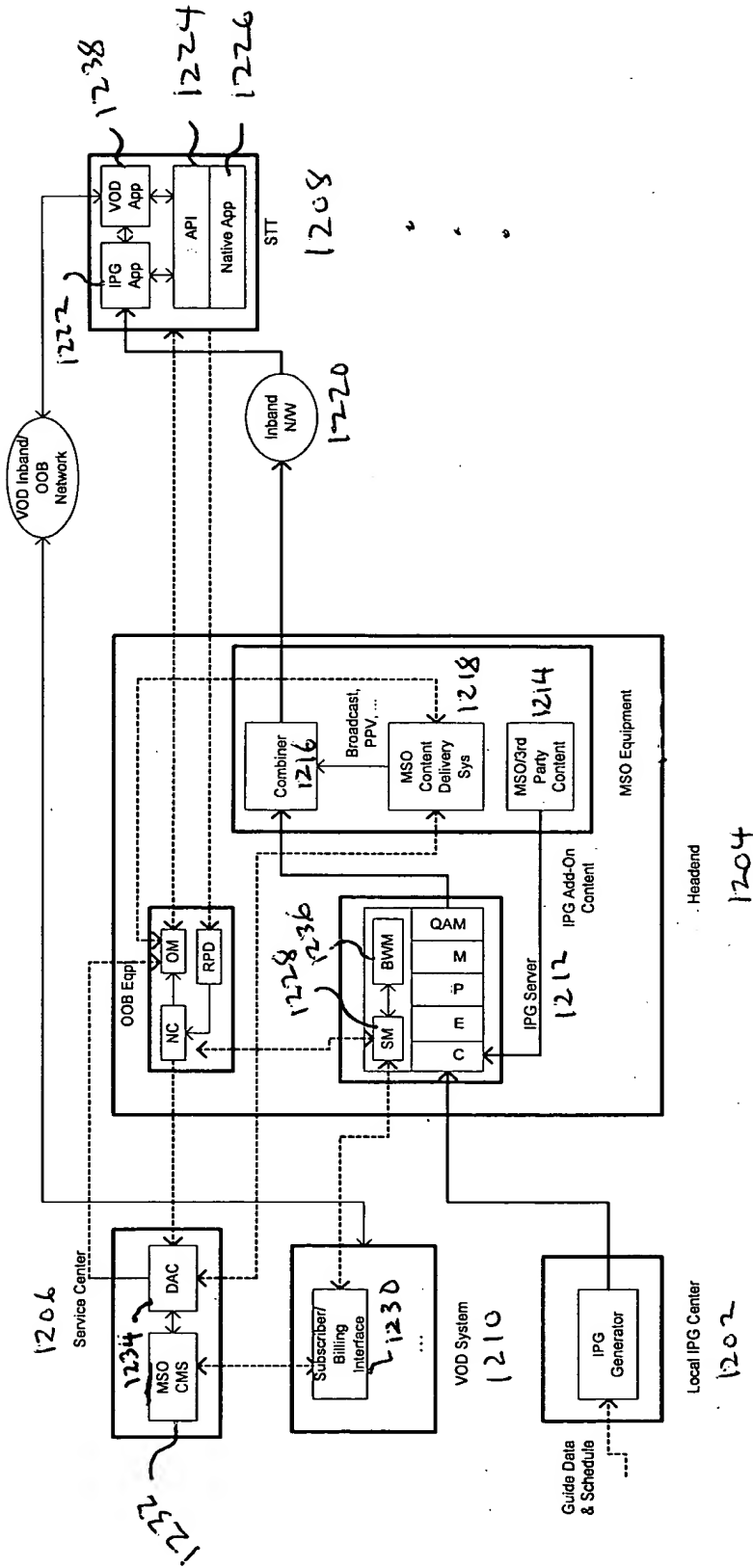


Fig. 12

1200

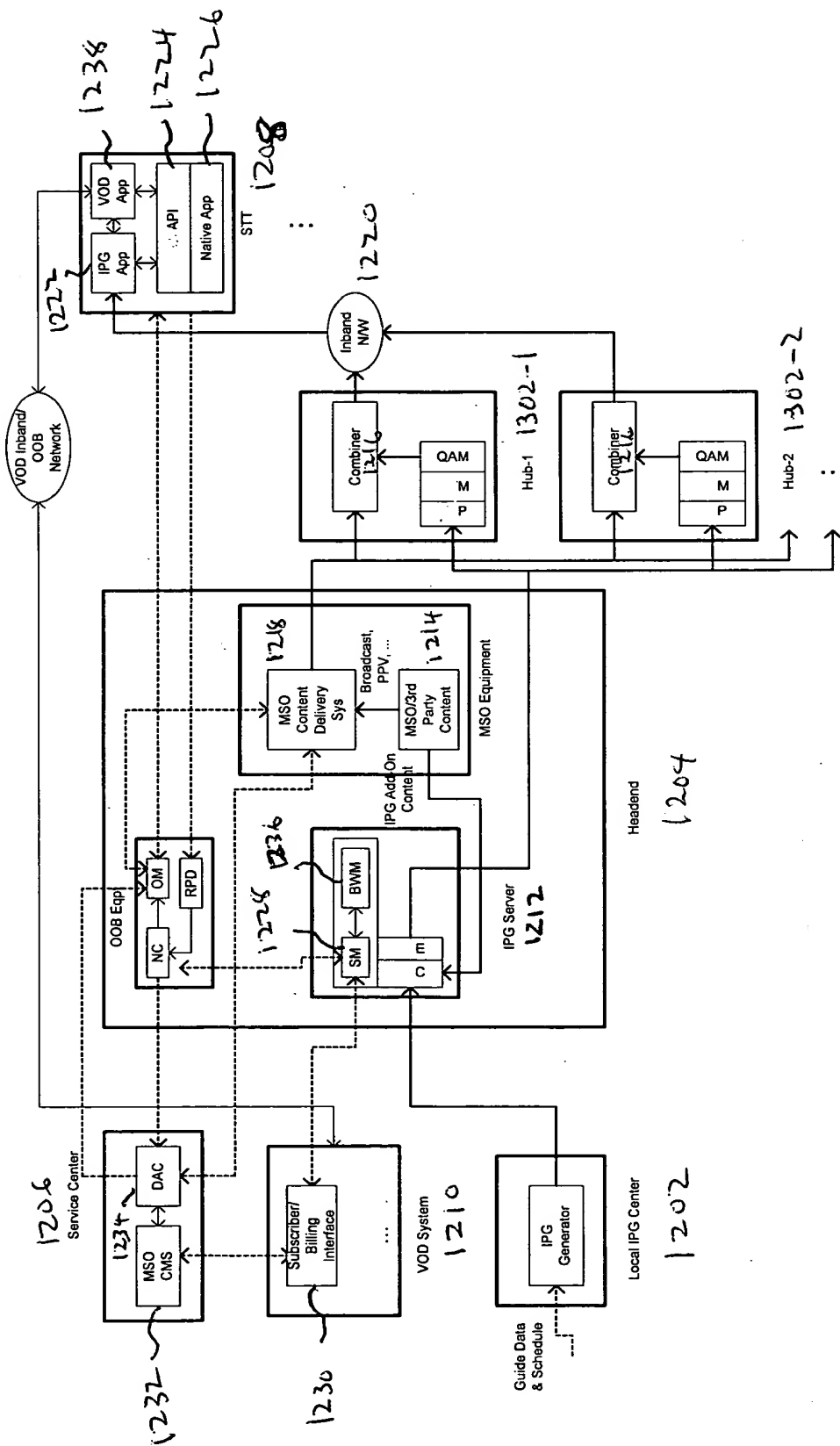


Fig. 13

1300

**TSG-to-Terminal Communication:**

Contents of Demand-Cast Index Table

table version number (incremented when table content changes)
list of available demand-cast streams
IP address for the source TSG
MUX channel number within the source TSG
time of day and day of week

Fig. 14

**Terminal-to-SM Communication:**

Message Content

demand-cast stream ID
terminal ID
IP address for the source TSG
MUX channel number within the source TSG
message information (acquisition, release, or request)

Fig. 15

**SM to-TSG Communication:**

Message Content

demand-cast stream ID
MUX channel number within the source TSG
message/command (stream released, stream requested, or reset)

Fig. 16

**TSG-to-SM Communication:**

Message Content

demand-cast stream ID
MUX channel number within the source TSG
IP address for the source TSG
acknowledgment (of stream release, of stream request, or of reset)

Fig. 17

09538562-032900



A	A	A	A	A	R	R
A	A	A	A	R	R	R
A	A	A	A	R	R	R
A	A	A	R	R	R	P
A	A	A	R	R	R	P

A: acquired streams are in mux and in demand-cast index table

R: released streams are in mux and in demand-cast index table. They can be turned into passive streams.

P: passive streams are technically released. They are not in the demand-cast index table. They are removable.



active demand-cast streams are in IPG multiplex

TSG Demand-cast Stream Status

Fig. 18

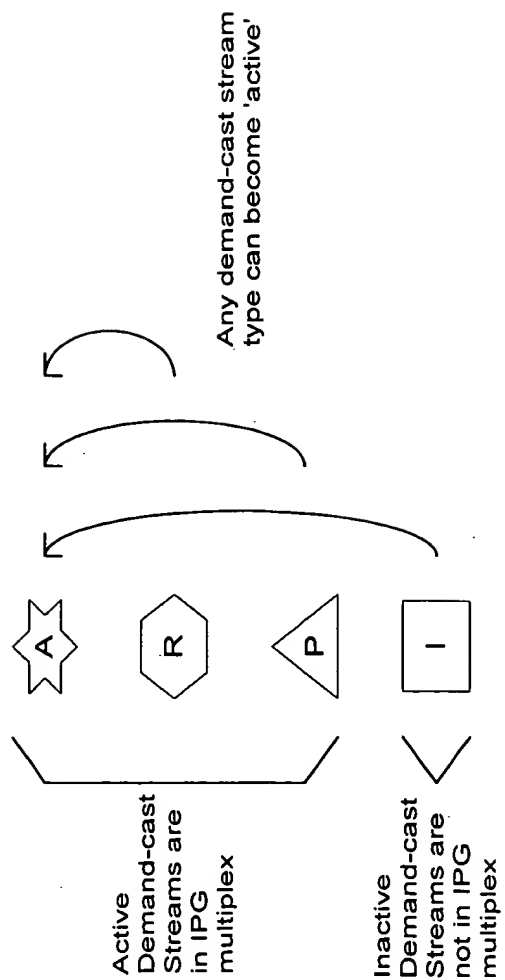


Fig. 19

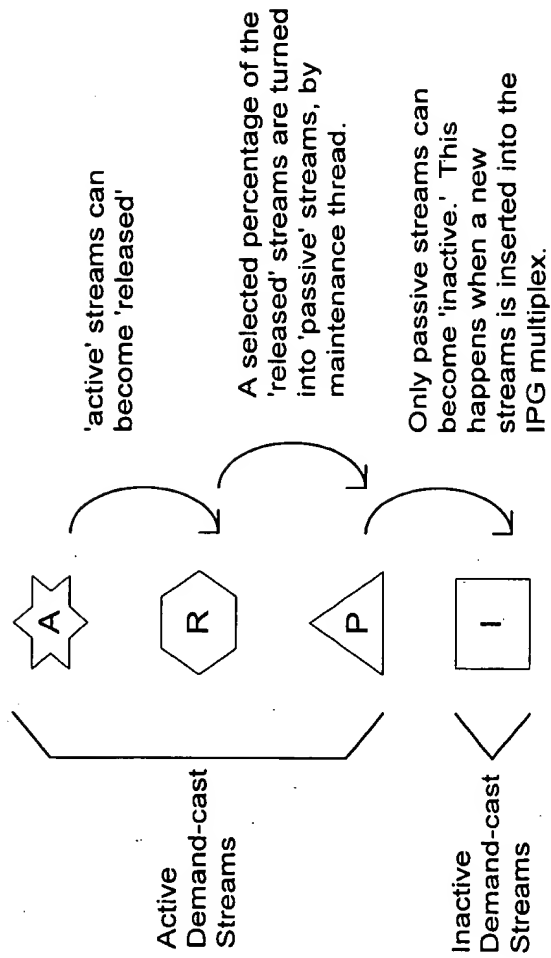


Fig. 20